•	Approved For Release	200 4/07/07 SECRET 75B0028 5B 000200050014-0	25X
		Copy 9 of 12 18 July 1973	25X 25X
	MEMORANDUM FOR:	Director, CIA Reconnaissance Programs	
	SUBJECT:	Program Progress Report	
	Forwarded herev	with are three copies of the IDEALIST	
	Program Progress Repo	ort for the period 1 April 1973 - 30 June 1973.	0.5
			25X
	•	WENDELL L. BEVAN, JR. Brigadier General, USAF Director of Special Activities	
25X1	Attachments - As stated		
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	NRO review(s) completed.	£	
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Approved For Release 2004/07/07 : CIA RUP 75B00285R000200050014-0

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Page 2

25X1

C/SAS/O/OSA (10 July 1973)

Distribution:

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Approved For Belease 2004 67/07 SECRET 75B00285B000200050014-0 Section 1	25X1 25X1
IDEALIST	
OPERATIONAL SUMMARY AND STATUS	
(1 April 1973 - 30 June 1973)	
IDEALIST TACKLE operational missions were alerted during this period. were flown, one was cancelled by Project Headquarters for weather, All missions were planned to be flown no closer than 25 nautical miles to the China mainland coast. The following is a summary of the missions flown:	25X1
bullinary of the missions flown.	25X1
2. Mission C143C was flown on 13 April 1973 along the	

north central China coast. This mission was designed to collect information using the "H" configuration. The northern portion of the route was not flown due to unsuitable weather. The pilot reported 20 percent coverage of the planned southern flight lines prior to aborting the route for weather.

Thirtyseven of 135 programmed targets, two bonus COMIREX, and two non-COMIREX targets were photographed.

Mission C153C was planned along the central China coast from Quemoy north to Shanghai. This mission was flown on 25 April 1973 utilizing the "H" configuration. Due to weather, the northern portion of the mission was not flown; however, the pilot diverted to the east and flew the southern portion of the

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		25X1
	Section 1 Page 2	25X1
25X1	mission. Seven of 120 programmed targets and two bonus non-COMIREX targets were photographed.	25X1
25X1	4. Mission C163C was flown on 26 April 1973 around the Paracel Islands and along the coast of Hainan Island to collect information using the "H" configuration	25V4
25X1	Eleven of 36 programmed targets plus one bonus non-COMIREX target were photographed.	25X1
	5. Mission C183C, an "H" configured mission, was flown on 10 May 1973 along the north central China coast. Only 30 percent coverage of the planned flight lines was obtained due to unsuitable weather along three portions of the route. Several (more than 10) fast moving ships heading east were sighted abeam Shanghai. Thirty-eight of 135 programmed targets were covered. Three bonus COMIREX and five non-COMIREX targets were photographed.	25X1
: :	6. Mission C193C was flown on 22/23 May 1973 in the vicinity of the Paracel Islands and Hainan Island, utilizing the "H" configuration. Detailed analysis of the mission revealed that 80 percent of the route was covered by clouds. Four of the 36 targets programmed were covered. Three bonus targets were covered; two COMIREX and one non-COMIREX.	
		25X1

	TOP SECRET Approved For Rélease 2004/07/07 : CIA-RDP 75B00286R000200050014-0	25X1
	Section 1 Page 3	25X1
25X	1 II. GENERAL	
25X	A. RED DOT - Six sorties were flown in support of continuing film tests using various film types and camera configurations.	
		25X1
25X	D. B-3 Camera Test - Seven sorties were flown with the modified "B" configuration.	
25X	E. "H" Lens Test - Eleven sortics were flown to test the new color corrected lens.	
25X	F. Four sorties were flown to provide photography in support of this test program.	
25X	G. COMPASS TRIP - Four sorties were flown over the Central Ferry Station poppy plantings. The Delta and multi-spectral configurations are being used for this phase.	
25X	H Three sorties were flown to photograph the areas flooded by the Mississippi River.	25X1
25X	pilots, completed training and became operationally ready on 8 June 1973.	25X1
25X	Each pilot flew 13 missions during this quarter to complete the flight phase of training. and a third candidate completed T-37 training. Two of the candidates are now in T-37 training with the third candidate in T-37 continuation	
25X	1 training. will be selected for U-2R	
25X	GROUP LEVELUPED FROM	25X1
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					Section I Page 4	25X1
25X1	III.		PILOT AND AIR	CRAFT STATUS (AS C	OF 30 JUNE 1973)	
		Α.	Detachment "G"	(Edwards AFB - North	Base)	
			Aircraft	2 U-2R		
•			Pilots			25X1
		в.	Detachment "H"			
			Aircraft			
			Pilots			
	• • •		·			25X1

Section 2

IDEALIST

DEVELOPMENT SUMMARY AND PROGRESS

(1 April 1973 - 30 June 1973)

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L AIRFRAME

- Inspect and Repair as Necessary (IRAN) A decision to extend the IRAN cycle from 2500 hours to 3400 hours was made on 3 May 1973. This decision was made in view of the favorable condition found on U.S. Air Force airframes previously submitted for IRAN.
- J-75P13B Engine The installation of improved third stage turbine blades to increase engine life expectancy has continued during this quarter as engines come due for overhaul. Two additional sets of improved first stage turbine blades have been procured and a three engine test program will commence during the first quarter of FY 1974. These improvements should permit extension of Hot Section Inspection (HSI) an additional 100 hours, and of Time Between Overhaul (TBO) an additional 200 hours.

C. U-2R Flight Test and Operational Training Summary

- IDEALIST Program accomplishments in U-2R aircraft since introduction include 11,270.6 hours on 3476 sorties as of 30 June 1973.
 - 2. Flight test and operational data are depicted below:

	1 APR-30 JUN FLIGHTS	1 APR-30 JUN TIME
1 - 051	42	110.5
2 - 053	44	102.4
3 - 054	53	204.3
4 - 055	<u>47</u>	<u>171.7</u>
TOTAL	186	588.9

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II. PAYLOAD

A. "H" Configuration - Serial Number 002 reentered flight testing during this quarter; however, a secondary or "ghost" image was observable in high oblique angle testing. The mirror has been removed from the configuration and returned to the contractor's facility for further testing and analysis. At the end of this quarter, ultrasonic scanning of the mirror's brazed joints indicated separation had occurred in two areas. A math model indicated differential temperature gradients due to brazing separation and short term temperature changes could also be affecting test results.

B. "B" Configuration

- 1. Serial Number 229 experienced defocusing problems early in flight testing and was returned to the contractor's facility for solution. After duplication of in-flight problems in the altitude chamber, a plane of best off-axis focus was established and the unit reassembled with this plane aligned with the platen. Following further altitude chamber testing, the unit reentered the flight test program on 20 June 1973.
- 2. Serial Number 230 has completed all functional ground testing and altitude chamber testing and is scheduled to enter flight testing early in July 1973.

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camera have been	Camera - The second f/3.5 apochromatic lens rariable slit modification to the scan heads of the n programmed to start during August 1973. The unit e in the modification process until January 1974.	25X1 25X1

TOP SECRET Approved For Release 200 4/07/07 : CIA-RDP 75B00285D000200050014-0	057/4
	25X1
Section 2 Page 3	25X1
E. Q-E Bay Simulator - The Wright-Patterson Air Force Base simulator of Q-E Bay vibration, pressure, and temperature effects has been completed and will be operationally tested with an IRIS configuration during September 1973. Drawings necessary to construe hatches so that IDEALIST configurations can be tested in this simulat	
have been made available to the Wright-Patterson Project Office.	

Approved For Release 2004/07/07 CIA RDP 75B00285B000200050014-0 25X1 25X1 Section 2 Page 4 LORAN Navigation System - OSA arranged to borrow a LORAN navigation system for use in a 90 to 120 day test program designed to determine the applicability of this system in U-2R operations. Feasibility testing is planned to be completed by September 1973. 25X1 Det "G" Man Hours Sorties Flying Hours TAC Maint Avionics 1 - 0564 12.6 480 200 6 2 - 05822.7 608 300 25X1 10 TOTAL 35.3 1088 500

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	Section 2 Page 5	25X1
25X1	v. AERO MEDICAL AND LIFE SUPPORT ACTIVITIES	
25X1	A. Medical Activities	
25X1	1. AMS/OSA Medical Consultant - recently chosen as consultant for AMS/OSA, visited Washington, D.C., for a briefing during mid-June.	25X1
		25X ²
25X1 25X1	3. Medical Technicians - One of the OMS medical technicians resigned. By agreement, the Air Force is entitled to fill the slot with an Air Force medic. It is reported that the Air Force personnel interrogated 6,000 IBM cards	
: 	to get two candidates, one of whom visited the site and declined the job. An excellent OMS candidate will accept the contract position if the Air Force is unable to fulfill this requirement.	25X1
25X1		

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Section 2 Page 6

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Life Support Activities

- Shark Deterrent Screen Contact has been made with Dr. C. Scott Johnson of the U.S. Navy, the inventor and principal investigator of a new shark deterrent device or as it is more commonly called, a shark bag. Dr. Johnson is forwarding one of the bags along with the early test results to Headquarters Life Support for evaluation. The major problem to date appears to be in miniturization packaging of this bag. In addition to its primary use in shark protection, the bag can also be used in overland survival as a sleeping bag, a water-collection device or for signaling.
- Glove Bladder Improvement The full pressure suit manufacturer, David Clark Company, is still investigating an improved bladder cloth for gloves. A weak area is evident in the stitching in the crotch of the fingers. Presently, in order to resolve this problem, a seamless glove has been fabricated using urethane as a part of the compound. Field evaluation should take place during the fall.
- Helmet Bearing Seal Improvement Six sets of redesigned seals are being field tested at Detachment "G". Initial results seem to indicate a considerable improvement, however, one seal did cause excessive abrasion to the mating teflon surface. The cause of this specific problem has yet to be identified.
- S1010 Pilot Protective Assembly (PPA) Pressure Suit Fit Problem - It has become readily apparent in the past six months that the lower calf circumference must be increased for all subjects. Across the board enlargement in this area will be accomplished as pressure suits are returned to the factory for maintenance or rework.
- Parachute Harness Retaining Strap The RQ-225 parachute retainer strap that insures the proper position of the main riser has been causing some interference with the suit controller and vent hardware. The retainer is to be lengthened one inch and test jumps in August 1973. will be accomplished

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	Section 2 Page 7	25X1
	6. Glove Disconnect - A full pressure suit glove disconnect has been redesigned to reduce weight and bulk, improve easy entry, and improve ventilation. Prototype hardware will be available in July 1973. C. Training 1. Life Support Conference - The semiannual Life Support Conference was held in Las Vegas, Nevada, on 6 May 1973 in conjunction with the Aerospace Medical Association annual meeting. the Detachment "G" Flight Surgeon, represented OSA at this meeting.	25X1
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